



ELSEVIER

Applied Surface Science 94 (1996) 497–500

applied
surface science

Author index

- Abend, G., see Hess, T.R. 94/95 (1996) 238
Adachi, H., see Endo, M. 94/95 (1996) 113
Adachi, H., see Satoh, H. 94/95 (1996) 247
Adsool, A.D., see Sharma, R.B. 94/95 (1996) 177
Al-Kassab, T., M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette, Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP 94/95 (1996) 306
Anderson, I.M., see Miller, M.K. 94/95 (1996) 288
Anderson, I.M., see Miller, M.K. 94/95 (1996) 391
Andr n, H.-O., see Ivchenko, V.A. 94/95 (1996) 267
Andr n, H.-O., see Lundin, L. 94/95 (1996) 320
Andr n, H.-O., see Zackrisson, J. 94/95 (1996) 351
Andr n, H.-O., see Kvist, A. 94/95 (1996) 356
Athenstaedt, W. and M. Leisch, The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe 94/95 (1996) 403
Auger, P., see Bigot, A. 94/95 (1996) 261

Babu, S.S., S.A. David and M.K. Miller, Microstructural development in PWA-1480 electron beam welds – an atom probe field ion microscopy study 94/95 (1996) 280
Bajikar, S.S., T.F. Kelly and P.P. Camus, Electrostatic analysis of local-electrode atom probes 94/95 (1996) 464
Bakhtizin, R.Z., J. Kishimoto, T. Hashizume and T. Sakurai, STM study of Sr adsorption on Si(100) surface 94/95 (1996) 478
Bas, P., A. Bostel, G. Grancher, B. Deconihout and D. Blavette, Analytic treatment of charge cloud overlaps: an improvement of the tomographic atom probe efficiency 94/95 (1996) 442
B ben, J., see Suchorski, Yu. 94/95 (1996) 207
Belyavsky, B.A., see Zhirnov, V.V. 94/95 (1996) 144
Bentley, J., see Miller, M.K. 94/95 (1996) 391
Bigot, A., F. Danoix, P. Auger, D. Blavette and A. Menand, 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation 94/95 (1996) 261
Blavette, D., see Bigot, A. 94/95 (1996) 261
Blavette, D., see Schmuck, C. 94/95 (1996) 273

Blavette, D., see Al-Kassab, T. 94/95 (1996) 306
Blavette, D., see Thuvander, M. 94/95 (1996) 343
Blavette, D., see Bas, P. 94/95 (1996) 442
Block, J.H., see Reckz gel, M.C. 94/95 (1996) 194
Block, J.H., see Medvedev, V.K. 94/95 (1996) 200
Block, J.H., see Suchorski, Yu. 94/95 (1996) 207
Block, J.H., see Reckz gel, M.C. 94/95 (1996) 212
Block, J.H., see Suchorski, Yu. 94/95 (1996) 217
Block, J.H., see Hess, T.R. 94/95 (1996) 238
Bonin, B., see Ma ssa, S. 94/95 (1996) 136
Bormatova, L., see Zhirnov, V.V. 94/95 (1996) 144
Bostel, A., see Stiller, K. 94/95 (1996) 326
Bostel, A., see Deconihout, B. 94/95 (1996) 422
Bostel, A., see Bas, P. 94/95 (1996) 442
Bouet, M., see Deconihout, B. 94/95 (1996) 422

Camus, P.P., see Larson, D.J. 94/95 (1996) 434
Camus, P.P., see Bajikar, S.S. 94/95 (1996) 464
Caron, P., see Schmuck, C. 94/95 (1996) 273
Cerezo, A., J.M. Hyde, S.J. Sijbrandij and G.D.W. Smith, Data analysis in the optical PoSAP 94/95 (1996) 457
Cerezo, A., see Sijbrandij, S.J. 94/95 (1996) 428
Chambrelaud, S., see Al-Kassab, T. 94/95 (1996) 306
Chambrelaud, S., see Duval, S. 94/95 (1996) 449
Chan, D.K., D.N. Seidman and K.L. Merkle, The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale 94/95 (1996) 409
Chang, C.S., see Tsong, T.T. 94/95 (1996) 472
Charbonnier, F., Developing and using the field emitter as a high intensity electron source 94/95 (1996) 26
Chen, C.L., T.T. Tsong and T.E. Mitchell, Surface diffusion and surface atomic roughness on Ir(001) surface and terraces 94/95 (1996) 224
Choi, W.B., see Zhirnov, V.V. 94/95 (1996) 123
Cocke, D.L., see Hess, T.R. 94/95 (1996) 238
Cuomo, J.J., see Zhirnov, V.V. 94/95 (1996) 123

Dacal, L.C.O., see Mollicone, M.M. 94/95 (1996) 68
Damen, E.P.N., see Fransen, M.J. 94/95 (1996) 107
Danoix, F., see Bigot, A. 94/95 (1996) 261
Danoix, F., see Schmuck, C. 94/95 (1996) 273

- Danoix, F., see Al-Kassab, T. 94/95 (1996) 306
 Danoix, F., see Stiller, K. 94/95 (1996) 326
 David, S.A., see Babu, S.S. 94/95 (1996) 280
 De Castilho, C.M.C., see Mollicone, M.M. 94/95 (1996) 68
 Deconihout, B., P. Gerard, M. Bouet and A. Bostel, Improvement of the detection efficiency of channel plate electron multiplier for atom probe application 94/95 (1996) 422
 Deconihout, B., see Bas, P. 94/95 (1996) 442
 Deconihout, B., see Duval, S. 94/95 (1996) 449
 Dolin, D.E., see Suvorov, A.L. 94/95 (1996) 384
 Duval, S., S. Chambrelaud and B. Deconihout, Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu_3Au 94/95 (1996) 449
 Endo, M., H. Nakane and H. Adachi, Fabrication of transition metal nitride field emitters 94/95 (1996) 113
 Filip, V., see Nicolaescu, D. 94/95 (1996) 79
 Filip, V., see Nicolaescu, D. 94/95 (1996) 87
 Forbes, R.G., Field-ion imaging old and new 94/95 (1996) 1
 Forbes, R.G., H.J. Kreuzer and R.L.C. Wang, On the theory of helium field adsorption 94/95 (1996) 60
 Forbes, R.G., Some comments on the simultaneous desorption of ^3He and ^4He 94/95 (1996) 73
 Fouaidy, M., see Maïssa, S. 94/95 (1996) 136
 Fransen, M.J., E.P.N. Damen, C. Schiller, T.L. van Rooy, H.B. Groen and P. Kruit, Characterization of ultrasharp field emitters by projection microscopy 94/95 (1996) 107
 Fursey, G., Early field emission studies of semiconductors 94/95 (1996) 44
 Galdetsky, A.V., see Zhimov, V.V. 94/95 (1996) 144
 Gerard, P., see Deconihout, B. 94/95 (1996) 422
 Givargizov, E.I., V.V. Zhimov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov, Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips 94/95 (1996) 117
 Givargizov, E.I., see Zhimov, V.V. 94/95 (1996) 144
 Godfrey, T.J., see Sijbrandij, S.J. 94/95 (1996) 428
 Gorodetskii, V., see Reckzögel, M.C. 94/95 (1996) 194
 Gorshkov, V.N., see Vladimirov, V.V. 94/95 (1996) 171
 Grancher, G., see Bas, P. 94/95 (1996) 442
 Groen, H.B., see Fransen, M.J. 94/95 (1996) 107
 Habermann, T., see Pupeter, N. 94/95 (1996) 94
 Hashizume, T., see Bakhtizin, R.Z. 94/95 (1996) 478
 Hashizume, T., see Jeon, D. 94/95 (1996) 493
 Hata, K., F. Nakayama, Y. Saito and A. Ohshita, Control of formation sites for liquid-Li cones on a $\text{W}\langle 100 \rangle$ tip by means of the remolding method 94/95 (1996) 156
 Hauet, A., see Schmuck, C. 94/95 (1996) 273
 Hess, T.R., D.L. Cocke, G. Abend and J.H. Block, Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni_3Zr 94/95 (1996) 238
 Hono, K., see Ringer, S.P. 94/95 (1996) 253
 Hren, J.J., see Zhimov, V.V. 94/95 (1996) 123
 Hyde, J.M., see Cerezo, A. 94/95 (1996) 457
 Ivchenko, V.A., A. Kvist, H.-O. André, N.N. Syutkin and K. Stiller, AP-FIM analysis of ordered Cu_3Au -(4 at% Pt) alloy 94/95 (1996) 267
 Jeon, D., T. Hashizume and T. Sakurai, Scanning tunneling microscopy of charge transfer on the $\text{Si}(111)7 \times 7$ surface 94/95 (1996) 493
 Joag, D.S., see Sharma, R.B. 94/95 (1996) 177
 Junquera, T., see Maïssa, S. 94/95 (1996) 136
 Kamei, K., see Katsuki, F. 94/95 (1996) 485
 Katsuki, F. and K. Kamei, STM observation of rapidly cooled $\text{Si}(111)$ vicinal surfaces 94/95 (1996) 485
 Kelly, T.F., see Larson, D.J. 94/95 (1996) 434
 Kelly, T.F., see Bajikar, S.S. 94/95 (1996) 464
 Kirschner, A., see Pupeter, N. 94/95 (1996) 94
 Kishimoto, J., see Bakhtizin, R.Z. 94/95 (1996) 478
 Konopsky, V.N., S.K. Sekatskii and V.S. Letokhov, Laser photoelectron projection microscopy with subwavelength spatial resolution 94/95 (1996) 148
 Kozlov, R.I., see Givargizov, E.I. 94/95 (1996) 117
 Kreuzer, H.J., see Forbes, R.G. 94/95 (1996) 60
 Kruit, P., see Fransen, M.J. 94/95 (1996) 107
 Kruse, N., see Voss, C. 94/95 (1996) 186
 Kvist, A., H.-O. André and L. Lundin, A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides 94/95 (1996) 356
 Kvist, A., see Ivchenko, V.A. 94/95 (1996) 267
 Larson, D.J., P.P. Camus and T.F. Kelly, Optimal field pulsing for atom probes with counter electrodes 94/95 (1996) 434
 Le Goff, A., see Maïssa, S. 94/95 (1996) 136
 Leisch, M., see Athenstaedt, W. 94/95 (1996) 403
 Letokhov, V.S., see Konopsky, V.N. 94/95 (1996) 148
 Lindahl, P., see Zackrisson, J. 94/95 (1996) 351
 Lundin, L. and H.-O. André, Observation of molybdenum-nitrogen clustering in highly alloyed martensite 94/95 (1996) 320
 Lundin, L., see Kvist, A. 94/95 (1996) 356
 Luong, M., see Maïssa, S. 94/95 (1996) 136

- Lusby, T.A. and A.J. Melmed, Nanocrystallization of a Co-Nb-B-C metallic glass 94/95 (1996) 300
- Macht, M.-P., see Al-Kassab, T. 94/95 (1996) 306
- Mahner, E., see Pupeter, N. 94/95 (1996) 94
- Maïssa, S., T. Junquera, M. Fouaidy, A. Le Goff, B. Bonin, M. Luong, H. Safa and J. Tan, Study of luminous phenomena observed on contaminated metallic surfaces submitted to high RF fields 94/95 (1996) 136
- Medvedev, V.K., Yu. Suchorski and J.H. Block, Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip 94/95 (1996) 200
- Medvedev, V.K., see Suchorski, Yu. 94/95 (1996) 207
- Medvedev, V.K., see Suchorski, Yu. 94/95 (1996) 217
- Melmed, A.J., Recollections of Erwin Müller's laboratory: the development of FIM (1951-1956) 94/95 (1996) 17
- Melmed, A.J., see Lusby, T.A. 94/95 (1996) 300
- Menand, A., see Bigot, A. 94/95 (1996) 261
- Menand, A., see Thuvander, M. 94/95 (1996) 343
- Merkle, K.L., see Chan, D.K. 94/95 (1996) 409
- Miller, M.K., I.M. Anderson and K.F. Russell, Precipitation and grain boundary segregation in molybdenum-doped NiAl 94/95 (1996) 288
- Miller, M.K. and K.F. Russell, APFIM characterization of a high phosphorus Russian RPV weld 94/95 (1996) 378
- Miller, M.K., I.M. Anderson, J. Bentley and K.F. Russell, Phase separation in the Fe-Cr-Ni system 94/95 (1996) 391
- Miller, M.K. and K.F. Russell, Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels 94/95 (1996) 398
- Miller, M.K., see Babu, S.S. 94/95 (1996) 280
- Miller, M.K., see Thomson, R.C. 94/95 (1996) 313
- Miller, M.K., see Pareige, P.J. 94/95 (1996) 362
- Miller, M.K., see Pareige, P. 94/95 (1996) 370
- Mitchell, T.E., see Chen, C.L. 94/95 (1996) 224
- Mitterauer, J., Field emission from thin liquid metal films 94/95 (1996) 161
- Mollicone, M.M., L.C.O. Dacal and C.M.C. de Castilho, Local field and potential barrier in tunneling processes 94/95 (1996) 68
- Mousa, M.S., Electron emission from carbon fibre tips 94/95 (1996) 129
- Mozyrsky, D.V., see Vladimirov, V.V. 94/95 (1996) 171
- Müller, G., see Pupeter, N. 94/95 (1996) 94
- Murakami, H., see Read, H.G. 94/95 (1996) 334
- Nakane, H., see Endo, M. 94/95 (1996) 113
- Nakane, H., see Satoh, H. 94/95 (1996) 247
- Nakayama, F., see Hata, K. 94/95 (1996) 156
- Naundorf, V., see Al-Kassab, T. 94/95 (1996) 306
- Nicolaescu, D., V. Filip and P.R. Wilshaw, Modelling of the field emission microtriode with emitter covered with porous silicon 94/95 (1996) 79
- Nicolaescu, D. and V. Filip, Modelling of a magnetic sensor based on vacuum field emission 94/95 (1996) 87
- Nishikawa, K., T. Nishiuchi, M. Yamamoto and O. Nishikawa, Observation of both Ni and Mo atom images by FIM with imaging plates 94/95 (1996) 295
- Nishikawa, O., see Nishikawa, K. 94/95 (1996) 295
- Nishiuchi, T., see Nishikawa, K. 94/95 (1996) 295
- Ohshita, A., see Hata, K. 94/95 (1996) 156
- Pareige, P. and M.K. Miller, Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study 94/95 (1996) 370
- Pareige, P.J., K.F. Russell and M.K. Miller, APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation 94/95 (1996) 362
- Piel, H., see Pupeter, N. 94/95 (1996) 94
- Plekhanov, P.S., see Givargizov, E.I. 94/95 (1996) 117
- Plekhanov, P.S., see Zhirmov, V.V. 94/95 (1996) 144
- Polmear, I.J., see Ringer, S.P. 94/95 (1996) 253
- Pradeep, N., see Sharma, R.B. 94/95 (1996) 177
- Pupeter, N., T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel, Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes 94/95 (1996) 94
- Read, H.G. and H. Murakami, Microstructural influences on the decomposition of an Al-containing ferritic stainless steel 94/95 (1996) 334
- Reckzügel, M.C., V. Gorodetskii and J.H. Block, Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip 94/95 (1996) 194
- Reckzügel, M.C. and J.H. Block, NLSDA calculations for H₃ on Rh₅ including high electric fields: Could linear H₃ be stable on Rh-tips? 94/95 (1996) 212
- Ringer, S.P., K. Hono, I.J. Polmear and T. Sakurai, Precipitation processes during the early stages of ageing in Al-Cu-Mg alloys 94/95 (1996) 253
- Russell, K.F., see Miller, M.K. 94/95 (1996) 288
- Russell, K.F., see Pareige, P.J. 94/95 (1996) 362
- Russell, K.F., see Miller, M.K. 94/95 (1996) 378
- Russell, K.F., see Miller, M.K. 94/95 (1996) 391
- Russell, K.F., see Miller, M.K. 94/95 (1996) 398
- Safa, H., see Maïssa, S. 94/95 (1996) 136
- Saito, Y., see Hata, K. 94/95 (1996) 156

- Sakurai, T., see Ringer, S.P. 94/95 (1996) 253
- Sakurai, T., see Bakhtizin, R.Z. 94/95 (1996) 478
- Sakurai, T., see Jeon, D. 94/95 (1996) 493
- Satoh, H., H. Nakane and H. Adachi, LEED and XPS studies of the ZrO/W(100) surface 94/95 (1996) 247
- Schiller, C., see Fransen, M.J. 94/95 (1996) 107
- Schmuck, C., F. Danoix, P. Caron, A. Hauet and D. Blavette, Atomic scale investigation of ordering and precipitation processes in a model Ni-Cr-Al alloy 94/95 (1996) 273
- Seidman, D.N., see Chan, D.K. 94/95 (1996) 409
- Seidman, D.N., see Shashkov, D.A. 94/95 (1996) 416
- Sekatskii, S.K., see Konopsky, V.N. 94/95 (1996) 148
- Senft, D.C., Atomic jump lengths in surface diffusion: experiment and theory 94/95 (1996) 231
- Sharma, R.B., A.D. Adsool, N. Pradeep and D.S. Joag, Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy 94/95 (1996) 177
- Shashkov, D.A. and D.N. Seidman, Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces 94/95 (1996) 416
- Shih, K.L., see Tsong, T.T. 94/95 (1996) 472
- Sijbrandij, S.J., A. Cerezo, T.J. Godfrey and G.D.W. Smith, Improvements in the mass resolution of the three-dimensional atom probe 94/95 (1996) 428
- Sijbrandij, S.J., see Cerezo, A. 94/95 (1996) 457
- Smith, G.D.W., see Sijbrandij, S.J. 94/95 (1996) 428
- Smith, G.D.W., see Cerezo, A. 94/95 (1996) 457
- Son, U.T., see Zhimov, V.V. 94/95 (1996) 144
- Stepanova, A.N., see Givargizov, E.I. 94/95 (1996) 117
- Stiller, K., F. Danoix and A. Bostel, Investigation of precipitation in a new maraging stainless steel 94/95 (1996) 326
- Stiller, K., see Ivchenko, V.A. 94/95 (1996) 267
- Stiller, K., see Thuvander, M. 94/95 (1996) 343
- Su, W.B., see Tsong, T.T. 94/95 (1996) 472
- Suchorski, Yu., J. Begen, V.K. Medvedev and J.H. Block, Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations 94/95 (1996) 207
- Suchorski, Yu., V.K. Medvedev and J.H. Block, Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy 94/95 (1996) 217
- Suchorski, Yu., see Medvedev, V.K. 94/95 (1996) 200
- Suvorov, A.L. and D.E. Dolin, Field ion microscopy study of the interactions between self interstitials and impurities in metals 94/95 (1996) 384
- Syutkin, N.N., see Ivchenko, V.A. 94/95 (1996) 267
- Tan, J., see Maïssa, S. 94/95 (1996) 136
- Thomson, R.C. and M.K. Miller, An atom probe study of cementite precipitation in autotempered martensite in an Fe-Mn-C alloy 94/95 (1996) 313
- Thuvander, M., K. Stiller, D. Blavette and A. Menand, Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials 94/95 (1996) 343
- Thuvander, M., see Zackrisson, J. 94/95 (1996) 351
- Tong, L., see Wang, B.P. 94/95 (1996) 101
- Tsong, T.T., C.S. Chang, W.B. Su and K.L. Shih, New STM image structures in the confined regions of the Pt(001) surface 94/95 (1996) 472
- Tsong, T.T., see Chen, C.L. 94/95 (1996) 224
- van Rooy, T.L., see Fransen, M.J. 94/95 (1996) 107
- Vladimirov, V.V., V.N. Gorshkov and D.V. Mozyrsky, Microdroplet emission on liquid metal surface at the development of Rayleigh instabilities - applications in cosmos 94/95 (1996) 171
- Voss, C. and N. Kruse, Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips 94/95 (1996) 186
- Wang, B.P. and L. Tong, A study of the optimum field emitter shape for vacuum electronics applications 94/95 (1996) 101
- Wang, R.L.C., see Forbes, R.G. 94/95 (1996) 60
- Wilshaw, P.R., see Nicolaescu, D. 94/95 (1996) 79
- Wollenberger, H., see Al-Kassab, T. 94/95 (1996) 306
- Yamamoto, M., see Nishikawa, K. 94/95 (1996) 295
- Zackrisson, J., M. Thuvander, P. Lindahl and H.-O. André, Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content 94/95 (1996) 351
- Zhimov, V.V., W.B. Choi, J.J. Cuomo and J.J. Hren, Diamond coated Si and Mo field emitters: diamond thickness effect 94/95 (1996) 123
- Zhimov, V.V., L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Galdetsky and B.A. Belyavsky, Field emission properties of Au-Si eutectic 94/95 (1996) 144
- Zhimov, V.V., see Givargizov, E.I. 94/95 (1996) 117



ELSEVIER

Applied Surface Science 94 (1996) 501–510

applied
surface science

Subject index

Alkali metals

- Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block 94/95 (1996) 200
- Scanning tunneling microscopy of charge transfer on the Si(111)7 × 7 surface, D. Jeon, T. Hashizume and T. Sakurai 94/95 (1996) 493

Alloys

- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block 94/95 (1996) 238
- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai 94/95 (1996) 253
- AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. André, N.N. Syutkin and K. Stiller 94/95 (1996) 267
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa 94/95 (1996) 295
- Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. André 94/95 (1996) 320
- Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch 94/95 (1996) 403

Aluminium

- Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel 94/95 (1996) 94
- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai 94/95 (1996) 253
- 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand 94/95 (1996) 261
- Atomic scale investigation of ordering and precipitation processes in a model Ni–Cr–Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette 94/95 (1996) 273
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami 94/95 (1996) 334

Atomic probe analysis

- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai 94/95 (1996) 253
- 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand 94/95 (1996) 261
- AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. André, N.N. Syutkin and K. Stiller 94/95 (1996) 267
- Atomic scale investigation of ordering and precipitation processes in a model Ni–Cr–Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette 94/95 (1996) 273

- Microstructural development in PWA-1480 electron beam welds – an atom probe field ion microscopy study, S.S. Babu, S.A. David and M.K. Miller 94/95 (1996) 280
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette 94/95 (1996) 306
- An atom probe study of cementite precipitation in autotempered martensite in an Fe–Mn–C alloy, R.C. Thomson and M.K. Miller 94/95 (1996) 313
- Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén 94/95 (1996) 320
- Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel 94/95 (1996) 326
- Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami 94/95 (1996) 334
- Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351
- A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides, A. Kvist, H.-O. Andrén and L. Lundin 94/95 (1996) 356
- APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller 94/95 (1996) 362
- Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study, P. Pareige and M.K. Miller 94/95 (1996) 370
- APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell 94/95 (1996) 378
- Phase separation in the Fe–Cr–Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell 94/95 (1996) 391
- The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch 94/95 (1996) 403
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman 94/95 (1996) 416
- Improvement of the detection efficiency of channel plate electron multiplier for atom probe application, B. Deconihout, P. Gerard, M. Bouet and A. Bostel 94/95 (1996) 422
- Improvements in the mass resolution of the three-dimensional atom probe, S.J. Sijbrandij, A. Cerezo, T.J. Godfrey and G.D.W. Smith 94/95 (1996) 428
- Optimal field pulsing for atom probes with counter electrodes, D.J. Larson, P.P. Camus and T.F. Kelly 94/95 (1996) 434
- Analytic treatment of charge cloud overlaps: an improvement of the tomographic atom probe efficiency, P. Bas, A. Bostel, G. Grancher, B. Deconihout and D. Blavette 94/95 (1996) 442
- Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambrelaud and B. Deconihout 94/95 (1996) 449
- Data analysis in the optical PoSAP, A. Cerezo, J.M. Hyde, S.J. Sijbrandij and G.D.W. Smith 94/95 (1996) 457
- Electrostatic analysis of local-electrode atom probes, S.S. Bajikar, T.F. Kelly and P.P. Camus 94/95 (1996) 464
- ### Boron
- Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- ### Cadmium
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- ### Carbides
- A specimen preparation technique for atom probe analysis of the near-surface region of cemented carbides, A. Kvist, H.-O. Andrén and L. Lundin 94/95 (1996) 356

Carbon

- Electron emission from carbon fibre tips, M.S. Mousa 94/95 (1996) 129
- Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351

Carbon monoxide

- Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckzügel, V. Gorodetskii and J.H. Block 94/95 (1996) 194
- Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block 94/95 (1996) 200
- Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations, Yu. Suchorski, J. Bęben, V.K. Medvedev and J.H. Block 94/95 (1996) 207

Catalysis

- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186

Chromium

- Atomic scale investigation of ordering and precipitation processes in a model Ni-Cr-Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette 94/95 (1996) 273
- Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell 94/95 (1996) 398

Cobalt

- Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy, R.B.

Sharma, A.D. Adsool, N. Pradeep and D.S. Joag

94/95 (1996) 177

Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed

94/95 (1996) 300

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Computer simulations

A study of the optimum field emitter shape for vacuum electronics applications, B.P. Wang and L. Tong

94/95 (1996) 101

Copper

Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel

94/95 (1996) 94

Precipitation processes during the early stages of ageing in Al-Cu-Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai

94/95 (1996) 253

3D reconstruction and analysis of GP zones in Al-1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand

94/95 (1996) 261

AP-FIM analysis of ordered Cu₃Au-(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller

94/95 (1996) 267

Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman

94/95 (1996) 416

Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambrelaud and B. Deconihout

94/95 (1996) 449

Diamond

Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips, E.I. Givargizov, V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov

94/95 (1996) 117

Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren

94/95 (1996) 123

Electron emission

- Electron emission from carbon fibre tips,
M.S. Mousa 94/95 (1996) 129

Electron microscopy

- Diamond coated Si and Mo field emitters:
diamond thickness effect, V.V. Zhirnov,
W.B. Choi, J.J. Cuomo and J.J. Hren 94/95 (1996) 123
- Precipitation processes during the early
stages of ageing in Al-Cu-Mg alloys,
S.P. Ringer, K. Hono, I.J. Polmear and
T. Sakurai 94/95 (1996) 253
- AP-FIM analysis of ordered Cu₃Au-(4 at%
Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O.
Andrén, N.N. Syutkin and K. Stiller 94/95 (1996) 267
- Nanocrystallization of a Co-Nb-B-C me-
tallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Investigation of precipitation in a new
maraging stainless steel, K. Stiller, F.
Danoix and A. Bostel 94/95 (1996) 326
- Grain boundary precipitation and segrega-
tion in Ni-16Cr-9Fe model materials,
M. Thuvander, K. Stiller, D. Blavette
and A. Menand 94/95 (1996) 343
- Atom probe analysis of carbonitride grains
in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cer-
mets with different carbon content, J.
Zackrisson, M. Thuvander, P. Lindahl
and H.-O. Andrén 94/95 (1996) 351
- The chemistry and structure of {222}
CdO/Ag heterophase interfaces on an
atomic scale, D.K. Chan, D.N. Seidman
and K.L. Merkle 94/95 (1996) 409

Field desorption

- Pulsed field desorption mass spectrometric
study of the oxidation of hydrogen-
doped Ni₃Zr, T.R. Hess, D.L. Cocke, G.
Abend and J.H. Block 94/95 (1996) 238

Field effect

- On the theory of helium field adsorption,
R.G. Forbes, H.J. Kreuzer and R.L.C.
Wang 94/95 (1996) 60
- Some comments on the simultaneous des-
orption of ³He and ⁴He, R.G. Forbes 94/95 (1996) 73
- Noble-gas-like mechanism of localized field
ionization of nitrogen as detected by
field ion appearance energy spec-
troscopy, Yu. Suchorski, V.K. Medve-
dev and J.H. Block 94/95 (1996) 217

- Pulsed field desorption mass spectrometric
study of the oxidation of hydrogen-
doped Ni₃Zr, T.R. Hess, D.L. Cocke, G.
Abend and J.H. Block 94/95 (1996) 238

Field electron microscopy

- Oscillatory behavior in the catalytic reduc-
tion of NO and NO₂ with hydrogen on
Pt field emitter tips, C. Voss and N.
Kruse 94/95 (1996) 186

Field emission

- Developing and using the field emitter as a
high intensity electron source, F. Char-
bonnier 94/95 (1996) 26
- Modelling of the field emission microtriode
with emitter covered with porous sili-
con, D. Nicolaescu, V. Filip and P.R.
Wilshaw 94/95 (1996) 79
- Modelling of a magnetic sensor based on
vacuum field emission, D. Nicolaescu
and V. Filip 94/95 (1996) 87
- Comparative studies on enhanced field
emission from mechanically and chemi-
cally polished broad-area Nb, Cu, and
Al cathodes, N. Pupeter, T. Habermann,
A. Kirschner, E. Mahner, G. Müller and
H. Piel 94/95 (1996) 94
- A study of the optimum field emitter shape
for vacuum electronics applications, B.P.
Wang and L. Tong 94/95 (1996) 101
- Characterization of ultrasharp field emitters
by projection microscopy, M.J. Fransen,
E.P.N. Damen, C. Schiller, T.L.
van Rooy, H.B. Groen and P. Kruit 94/95 (1996) 107
- Fabrication of transition metal nitride field
emitters, M. Endo, H. Nakane and H.
Adachi 94/95 (1996) 113
- Field emission characteristics of polycrys-
talline and single-crystalline diamond
grown on Si tips, E.I. Givargizov, V.V.
Zhirnov, A.N. Stepanova, P.S.
Plekhanov and R.I. Kozlov 94/95 (1996) 117
- Diamond coated Si and Mo field emitters:
diamond thickness effect, V.V. Zhirnov,
W.B. Choi, J.J. Cuomo and J.J. Hren 94/95 (1996) 123
- Study of luminous phenomena observed on
contaminated metallic surfaces submit-
ted to high RF fields, S. Maïssa, T.
Junquera, M. Fouaidy, A. Le Goff, B.
Bonin, M. Luong, H. Safa and J. Tan 94/95 (1996) 136
- Field emission properties of Au-Si eutectic,
V.V. Zhirnov, L. Bormatova, E.I. Givar-
gizov, P.S. Plekhanov, U.T. Son, A.V.
Galdetsky and B.A. Belyavsky 94/95 (1996) 144

- Laser photoelectron projection microscopy with subwavelength spatial resolution, V.N. Konopsky, S.K. Sekatskii and V.S. Letokhov 94/95 (1996) 148
- Control of formation sites for liquid-Li cones on a W<100> tip by means of the remolding method, K. Hata, F. Nakayama, Y. Saito and A. Ohshita 94/95 (1996) 156
- Microdroplet emission on liquid metal surface at the development of Rayleigh instabilities – applications in cosmos, V.V. Vladimirov, V.N. Gorshkov and D.V. Mozyrsky 94/95 (1996) 171
- Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckzügel, V. Gorodetskii and J.H. Block 94/95 (1996) 194
- Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block 94/95 (1996) 200
- Field emission from thin liquid metal films, J. Mitterauer 94/95 (1996) 161
- Field emission microscopy*
- Early field emission studies of semiconductors, G. Fursey 94/95 (1996) 44
- Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy, R.B. Sharma, A.D. Adsool, N. Pradeep and D.S. Joag 94/95 (1996) 177
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Field ion microscopy*
- Field-ion imaging old and new, R.G. Forbes 94/95 (1996) 1
- Recollections of Erwin Müller's laboratory: the development of FIM (1951–1956), A.J. Melmed 94/95 (1996) 17
- Local field and potential barrier in tunneling processes, M.M. Mollicone, L.C.O. Dacal and C.M.C. de Castilho 94/95 (1996) 68
- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186
- Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations, Yu. Suchorski, J. Bęben, V.K. Medvedev and J.H. Block 94/95 (1996) 207
- Surface diffusion and surface atomic roughness on Ir(001) surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell 94/95 (1996) 224
- Precipitation processes during the early stages of ageing in Al–Cu–Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai 94/95 (1996) 253
- 3D reconstruction and analysis of GP zones in Al–1.7Cu (at%): a tomographic atom probe investigation, A. Bigot, F. Danoix, P. Auger, D. Blavette and A. Menand 94/95 (1996) 261
- AP-FIM analysis of ordered Cu₃Au–(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller 94/95 (1996) 267
- Microstructural development in PWA-1480 electron beam welds – an atom probe field ion microscopy study, S.S. Babu, S.A. David and M.K. Miller 94/95 (1996) 280
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa 94/95 (1996) 295
- Nanocrystallization of a Co–Nb–B–C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette 94/95 (1996) 306
- An atom probe study of cementite precipitation in autotempered martensite in an Fe–Mn–C alloy, R.C. Thomson and M.K. Miller 94/95 (1996) 313
- Observation of molybdenum–nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén 94/95 (1996) 320
- Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel 94/95 (1996) 326
- Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami 94/95 (1996) 334
- Grain boundary precipitation and segregation in Ni–16Cr–9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351
- APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller 94/95 (1996) 362
- Characterization of neutron-induced copper-enriched clusters in pressure vessel steel

- weld: an APFIM study, P. Pareige and M.K. Miller 94/95 (1996) 370
- APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell 94/95 (1996) 378
- Field ion microscopy study of the interactions between self interstitials and impurities in metals, A.L. Suvorov and D.E. Dolin 94/95 (1996) 384
- Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell 94/95 (1996) 391
- Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell 94/95 (1996) 398
- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman 94/95 (1996) 416
- Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambrelan and B. Deconihout 94/95 (1996) 449
- Field ionisation*
- Some comments on the simultaneous desorption of ³He and ⁴He, R.G. Forbes 94/95 (1996) 73
- Glass*
- Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed 94/95 (1996) 300
- Gold*
- Field emission properties of Au-Si eutectic, V.V. Zhirmov, L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Galdetsky and B.A. Belyavsky 94/95 (1996) 144
- AP-FIM analysis of ordered Cu₃Au-(4 at% Pt) alloy, V.A. Ivchenko, A. Kvist, H.-O. Andrén, N.N. Syutkin and K. Stiller 94/95 (1996) 267
- Contribution of 3D atom probe to the understanding of plane-by-plane AP analyses data: application to the study of ordering in Cu₃Au, S. Duval, S. Chambrelan and B. Deconihout 94/95 (1996) 449
- Hydrogen*
- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186
- NLSDA calculations for H₃ on Rh₅ including high electric fields: Could linear H₃ be stable on Rh-tips?, M.C. Reckzügel and J.H. Block 94/95 (1996) 212
- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block 94/95 (1996) 238
- Interfaces*
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Ion bombardment*
- Field ion microscopy study of the interactions between self interstitials and impurities in metals, A.L. Suvorov and D.E. Dolin 94/95 (1996) 384
- Iridium*
- Surface diffusion and surface atomic roughness on Ir(001) surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell 94/95 (1996) 224
- Iron*
- Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand 94/95 (1996) 343
- Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell 94/95 (1996) 398
- Low energy electron diffraction*
- LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi 94/95 (1996) 247
- STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai 94/95 (1996) 478
- Magnesium*
- Precipitation processes during the early stages of ageing in Al-Cu-Mg alloys, S.P. Ringer, K. Hono, I.J. Polmear and T. Sakurai 94/95 (1996) 253

Magnesium oxide

- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman 94/95 (1996) 416

Manganese

- An atom probe study of cementite precipitation in autotempered martensite in an Fe-Mn-C alloy, R.C. Thomson and M.K. Miller 94/95 (1996) 313

Mass spectroscopy

- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block 94/95 (1996) 238

Molybdenum

- Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren 94/95 (1996) 123
- Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell 94/95 (1996) 288
- Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa 94/95 (1996) 295
- Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén 94/95 (1996) 320
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351

Multilayers

- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette 94/95 (1996) 306

Nickel

- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-

doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block

94/95 (1996) 238

Atomic scale investigation of ordering and precipitation processes in a model Ni-Cr-Al alloy, C. Schmuck, F. Danoix, P. Caron, A. Hauet and D. Blavette

94/95 (1996) 273

Precipitation and grain boundary segregation in molybdenum-doped NiAl, M.K. Miller, I.M. Anderson and K.F. Russell

94/95 (1996) 288

Observation of both Ni and Mo atom images by FIM with imaging plates, K. Nishikawa, T. Nishiuchi, M. Yamamoto and O. Nishikawa

94/95 (1996) 295

Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette

94/95 (1996) 306

Grain boundary precipitation and segregation in Ni-16Cr-9Fe model materials, M. Thuvander, K. Stiller, D. Blavette and A. Menand

94/95 (1996) 343

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell

94/95 (1996) 398

Niobium

Comparative studies on enhanced field emission from mechanically and chemically polished broad-area Nb, Cu, and Al cathodes, N. Pupeter, T. Habermann, A. Kirschner, E. Mahner, G. Müller and H. Piel

94/95 (1996) 94

Fabrication of transition metal nitride field emitters, M. Endo, H. Nakane and H. Adachi

94/95 (1996) 113

Nanocrystallization of a Co-Nb-B-C metallic glass, T.A. Lusby and A.J. Melmed

94/95 (1996) 300

Nitrides

Fabrication of transition metal nitride field emitters, M. Endo, H. Nakane and H. Adachi

94/95 (1996) 113

Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermet with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén

94/95 (1996) 351

Nitrogen

- Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy, Yu. Suchorski, V.K. Medvedev and J.H. Block 94/95 (1996) 217

- Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andr  n 94/95 (1996) 320

Nitrogen dioxide

- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186

Nitrous oxide

- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186

Oxidation

- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block 94/95 (1996) 238

Oxides

- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409

Palladium

- Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft 94/95 (1996) 231

Phase transitions

- Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell 94/95 (1996) 391

Phosphorus

- APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell 94/95 (1996) 378

Photoelectron spectroscopy

- LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi 94/95 (1996) 247

Platinum

- Oscillatory behavior in the catalytic reduction of NO and NO₂ with hydrogen on Pt field emitter tips, C. Voss and N. Kruse 94/95 (1996) 186

- Digitizing chemical oscillations: analyzing experimental data of the CO oxidation on a Pt-tip, M.C. Reckz  gel, V. Gorodetskii and J.H. Block 94/95 (1996) 194

- The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch 94/95 (1996) 403

- New STM image structures in the confined regions of the Pt(001) surface, T.T. Tsong, C.S. Chang, W.B. Su and K.L. Shih 94/95 (1996) 472

Rhenium

- Surface diffusion and surface atomic roughness on Ir(001) surface and terraces, C.L. Chen, T.T. Tsong and T.E. Mitchell 94/95 (1996) 224

Rhodium

- Li-mediated feedback mechanism of oscillations in CO oxidation on a Rh field emitter tip, V.K. Medvedev, Yu. Suchorski and J.H. Block 94/95 (1996) 200

- NLSDA calculations for H₂ on Rh₅ including high electric fields: Could linear H₂ be stable on Rh-tips?, M.C. Reckz  gel and J.H. Block 94/95 (1996) 212

- The segregation behaviour of a Pt₉₀Rh₁₀ alloy studied with a three-dimensional atom-probe, W. Athenstaedt and M. Leisch 94/95 (1996) 403

Scanning tunneling microscopy

- New STM image structures in the confined regions of the Pt(001) surface, T.T. Tsong, C.S. Chang, W.B. Su and K.L. Shih 94/95 (1996) 472

- STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai 94/95 (1996) 478

- STM observation of rapidly cooled Si(111) vicinal surfaces, F. Katsuki and K. Kamei 94/95 (1996) 485
- Scanning tunneling microscopy of charge transfer on the Si(111)7 × 7 surface, D. Jeon, T. Hashizume and T. Sakurai 94/95 (1996) 493
- Silicon**
- Modelling of the field emission microtriode with emitter covered with porous silicon, D. Nicolaescu, V. Filip and P.R. Wilshaw 94/95 (1996) 79
- Field emission characteristics of polycrystalline and single-crystalline diamond grown on Si tips, E.I. Givargizov, V.V. Zhirnov, A.N. Stepanova, P.S. Plekhanov and R.I. Kozlov 94/95 (1996) 117
- Diamond coated Si and Mo field emitters: diamond thickness effect, V.V. Zhirnov, W.B. Choi, J.J. Cuomo and J.J. Hren 94/95 (1996) 123
- Field emission properties of Au-Si eutectic, V.V. Zhirnov, L. Bormatova, E.I. Givargizov, P.S. Plekhanov, U.T. Son, A.V. Galdetsky and B.A. Belyavsky 94/95 (1996) 144
- STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai 94/95 (1996) 478
- STM observation of rapidly cooled Si(111) vicinal surfaces, F. Katsuki and K. Kamei 94/95 (1996) 485
- Scanning tunneling microscopy of charge transfer on the Si(111)7 × 7 surface, D. Jeon, T. Hashizume and T. Sakurai 94/95 (1996) 493
- Silver**
- The chemistry and structure of {222} CdO/Ag heterophase interfaces on an atomic scale, D.K. Chan, D.N. Seidman and K.L. Merkle 94/95 (1996) 409
- Atomic-scale studies of silver segregation at MgO/Cu heterophase interfaces, D.A. Shashkov and D.N. Seidman 94/95 (1996) 416
- Sputter deposition**
- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambrelaud, F. Danoix and D. Blavette 94/95 (1996) 306
- Steel**
- An atom probe study of cementite precipitation in autotempered martensite in an Fe-Mn-C alloy, R.C. Thomson and M.K. Miller 94/95 (1996) 313
- Observation of molybdenum-nitrogen clustering in highly alloyed martensite, L. Lundin and H.-O. Andrén 94/95 (1996) 320
- Investigation of precipitation in a new maraging stainless steel, K. Stiller, F. Danoix and A. Bostel 94/95 (1996) 326
- Microstructural influences on the decomposition of an Al-containing ferritic stainless steel, H.G. Read and H. Murakami 94/95 (1996) 334
- APFIM studies of the phase transformations in thermally aged ferritic FeCuNi alloys: comparison with aging under neutron irradiation, P.J. Pareige, K.F. Russell and M.K. Miller 94/95 (1996) 362
- Characterization of neutron-induced copper-enriched clusters in pressure vessel steel weld: an APFIM study, P. Pareige and M.K. Miller 94/95 (1996) 370
- APFIM characterization of a high phosphorus Russian RPV weld, M.K. Miller and K.F. Russell 94/95 (1996) 378
- Phase separation in the Fe-Cr-Ni system, M.K. Miller, I.M. Anderson, J. Bentley and K.F. Russell 94/95 (1996) 391
- Comparison of the rate of decomposition in Fe-45%Cr, Fe-45%Cr-5%Ni and duplex stainless steels, M.K. Miller and K.F. Russell 94/95 (1996) 398
- Strontium**
- STM study of Sr adsorption on Si(100) surface, R.Z. Bakhtizin, J. Kishimoto, T. Hashizume and T. Sakurai 94/95 (1996) 478
- Surface diffusion**
- Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft 94/95 (1996) 231
- Tantalum**
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cermets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andrén 94/95 (1996) 351
- Thin films**
- Characterization of sputter-deposited multilayers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naun-

- dorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette 94/95 (1996) 306
- Titanium*
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cer-mets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andr  n 94/95 (1996) 351
- Tungsten*
- Control of formation sites for liquid-Li cones on a W(100) tip by means of the re-molding method, K. Hata, F. Nakayama, Y. Saito and A. Ohshita 94/95 (1996) 156
- Adsorption studies of cobalt on tungsten (110), (100) and (111) planes by probe-hole field emission microscopy, R.B. Sharma, A.D. Adsool, N. Pradeep and D.S. Joag 94/95 (1996) 177
- Study of CO surface diffusion on CO/W(111) by analysis of CO⁺ field ion rate fluctuations, Yu. Suchorski, J. B  ben, V.K. Medvedev and J.H. Block 94/95 (1996) 207
- Noble-gas-like mechanism of localized field ionization of nitrogen as detected by field ion appearance energy spectroscopy, Yu. Suchorski, V.K. Medvedev and J.H. Block 94/95 (1996) 217
- Atomic jump lengths in surface diffusion: experiment and theory, D.C. Senft 94/95 (1996) 231
- LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi 94/95 (1996) 247
- Atom probe analysis of carbonitride grains in (Ti, W, Ta, Mo)(C, N)(Co/Ni) cer-mets with different carbon content, J. Zackrisson, M. Thuvander, P. Lindahl and H.-O. Andr  n 94/95 (1996) 351
- Field ion microscopy study of the interactions between self interstitials and impurities in metals, A.L. Suvorov and D.E. Dolin 94/95 (1996) 384
- Tunneling*
- Local field and potential barrier in tunneling processes, M.M. Mollicone, L.C.O. Dacal and C.M.C. de Castilho 94/95 (1996) 68
- Work function*
- LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi 94/95 (1996) 247
- Zirconium*
- Pulsed field desorption mass spectrometric study of the oxidation of hydrogen-doped Ni₃Zr, T.R. Hess, D.L. Cocke, G. Abend and J.H. Block 94/95 (1996) 238
- LEED and XPS studies of the ZrO/W(100) surface, H. Satoh, H. Nakane and H. Adachi 94/95 (1996) 247
- Characterization of sputter-deposited multi-layers of Ni and Zr with APFIM/TAP, T. Al-Kassab, M.-P. Macht, V. Naundorf, H. Wollenberger, S. Chambreland, F. Danoix and D. Blavette 94/95 (1996) 306